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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Chun-Pu Hsu

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EXAMINER

MULLINS, BURTON S

ART UNIT

PAPER NUMBER

2834

DATE MAILED: 06/13/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/848,415

Applicant(s)

HSU, CHUN-PU

Examiner

Burton S. Mullins

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_ 6) ☐ Other: \_\_\_\_

## DETAILED ACTION

### *Specification*

1. The substitute specification filed 9-24-01 has not been entered because it introduces so many new errors and fails to correct existing ones that it is beside the point. Further, there is no marked-up copy showing changes made to the spec.
2. 35 U.S.C. 112, first paragraph, requires the specification to be written in "full, clear, concise, and exact terms." The original specification is replete with terms which are not clear, concise and exact. The specification should be revised carefully in order to comply with 35 U.S.C. 112, first paragraph. Examples of some unclear, inexact or verbose terms used in the specification are: On p.1, line 7, is "twisting force" the same as torque? On p.1, line 5, change second "K<sub>E</sub>" to ---K<sub>T</sub>---. On line 19, "K<sub>t</sub> is an twisting force" should be ---K<sub>t</sub> is a twisting force---. On page 2, line 10, change "is resulted" to ---resulted---. On line 12, change "is" to --are--. On line 14, "it" lacks antecedent basis. On line 15, "too larger I<sub>a</sub>" is not correct grammar. On line 21, change "knows" to ---known---. On lines 23-24, "the temperature of the...machine is incremented to deteriorate the efficiency of the electromotive machine" makes no sense. The examiner requests that applicant continue the careful review of the language in the specification and make appropriate changes.

### *Claim Rejections - 35 USC § 112*

3. Claims 1-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In general, claims 1-18 appear to be literal translations of the claims

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in the foreign application and are replete with syntax and grammar errors, with many parts of the claims indefinite and lacking antecedent basis. The following is an incomplete listing of the indefinite language.

In claim 1, recitations “a stator portion being provided to various stator coils to be installed in stator grooves” and “wherein the stator groove having a space for receiving windings of stator coil with more windings” are not idiomatic. Recitation “overlapped or adjacent arranged” is vague and indefinite. Recitation “each of a wire head and wire tail of each of the stator coils being connected to a switches so as to be formed with a Y type three phases connection” is not proper grammar and is indefinite. Recitations “the output point,” “the control joints” and “ the switching forms” lack antecedent basis. Recitation “after switching the switches, the coils of the stator portion being connected in series to be formed with different connections or selectively switching to any one of the coils so as to be formed with various networks of the coils with different numbers of windings” is a dangling prepositional phrase that makes no sense. Recitation “switching forms of the switches” lacks antecedent basis and is indefinite. Recitation “unit of the control system, i.e., in the network,” makes no sense and recitation “various and changeable inverse electromotive force  $K_E$  and twisting force constant  $K_T$ ” are indefinite and confusing.

In claims 2 and 3, recitation “through management control unit of the control system, the switches are switched to one of the coils or the plurality of coils are partially or wholly connected in series to be formed as a winding network; numbers of windings are varied in any forms; the inverse electromotive force  $K_E$  and twisting force constant  $K_T$  are varied in different ways” makes no sense.

In claims 4-5, “which is inputted to an input end of the input control system for being as a control and managing means of the switch” makes no sense.

In claim 6, recitation “in this process, control signals are manually inputted through the control signal input end to the control system; the management control unit of the control system cause a switch signal output end to output the form of the input signal according to the form of the input signal from the control signal input end so that the switches are switched to a winding network with respect to require number of windings” is a dangling prepositional phrase and is also vague, indefinite and confusing.

In claims 7-8, recitation “...can be varied in various forms, thereby, in the lower, middle and high operation speed ranges of an electromotive machine or generators, the operational efficiencies in the whole areas are improved uniformly, thereby having a high EFF value” is vague and indefinite.

In claim 9, recitation “wherein numbers of windings, wire diameters, and winding ways of the stator coils are changed with changes of manufacturing methods” is indefinite.

In claim 12, recitation “a three phases Y coil winding type” makes no sense. In claim 13, recitation “wherein the stator coils has a three phases coil winding type for being changed and managed by the control system” is indefinite. In claim 14, recitation “wherein the stator coils has a single phases coil winding type for being changed and managed by the control system” is indefinite.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-14, as best understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Anderson (US 5,821,660). Anderson teaches a brushless motor comprising: a stator portion (not shown, c.3, lines 35-36) being provided to various stator coils 30A-30C, 32A-32C, etc. (Fig.1) to be installed in stator grooves; wherein the stator groove having a space for receiving windings of stator coil with more windings; a plurality of stator coils including a plurality of stator coils with various numbers of windings 30A-30C, 32A-32C, etc.; the coils being overlapped or adjacent arranged to be placed in the same stator portion, each of the coils being opened to other coil; each of a wire head and wire tail of each of the stator coils being connected to a switches 38A-C, 40A-B, 42A-C (Fig.1) so as to be formed with a Y type three phases connection; a plurality of switches each having an input end controlled by a management control unit of a control system (contact controller 24) through the output point; the control joints of the plurality of switches being connected to the wire heads and wire tails of the stator coils (Fig.1); and the control system having a management control unit therein which sets the switching forms of switches (c.3, lines 52-55); the management control unit managing all the switching forms of the switches; after switching the switches, the coils of the stator portion being connected in series to be formed with different connections or selectively switching to any one of the coils so as to be formed with various networks of the

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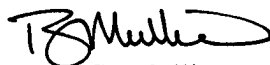
coils with different numbers of windings ; a coil winding network with various numbers of windings being formed in the stator portion through the control of the management control unit of the control system, i.e., in the network, various and changeable inverse electromotive force  $K_E$  and twisting force constant  $K_T$  (c.5, lines 14-62).

*Conclusion*

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Burton S. Mullins whose telephone number is 305-7063. The examiner can normally be reached on Monday-Friday, 9 am to 5 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are 305-1341 for regular communications and 305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-0956.

  
Burton S. Mullins  
Primary Examiner  
Art Unit 2834

bsm  
June 10, 2002